

SWBAT: describe charged objects

Jan 4-7:20 AM

# Welcome!!!

H. Leslie Grebe

SECA Physics  
Thursday 28 January 2016

\* Pick up:

- notebook
- slip of paper (for later)
- white board, eraser, marker



Opening question:

What are some places you have encountered static electricity? SOCKS ON CARPET

LAUNDRY  
BLANKETS / SHEETS  
PLASTIC SLIDE

Centering

Sep 7-7:04 AM

## Daily 3 Questions

- \* Every day except test/project days
- \* 3 Questions on the topics of the day
- \* Main source of daily points
- \* I am happy to give credit when I have no concerns about someone giving or getting help with the answers.

Reminder:

You can't get your points if you don't have your NAME!!!

Name	Period
1.	
2.	
3.	

Sep 9-7:32 AM

## Neutral and Charged Objects:

TRUE or FALSE: An object that is positively charged contains all protons and no electrons.

MORE PROTONS THAN ELECTRONS

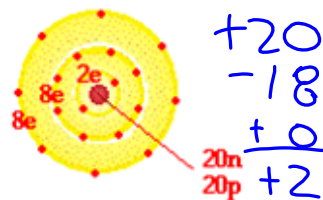
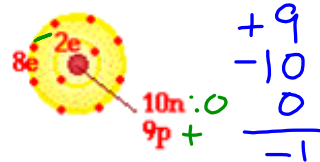
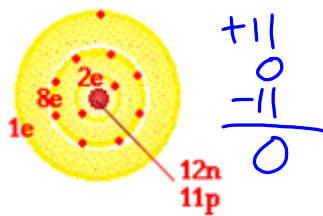
TRUE or FALSE: An object that is electrically neutral contains only neutrons.

# OF PROTONS = # OF ELECTRONS

TRUE or FALSE: An object that is negatively charged could contain only electrons with no accompanying protons.

MORE ELECTRONS THAN PROTONS

What's the charge on this atom?



Fix this statement:

"A ~~positively~~ charged object is an object that has extra ~~positive~~ ~~electrons~~."

NEGATIVELY

NEGATIVE

PROTONS

Jan 31-7:19 AM

## Outrageous Acts of Science

A show about viral videos and the science that makes them possible...

### Static Cat

Natural Born Thrillers #8

1. Just watch
2. Read the questions
3. Watch again
4. Discuss
5. Watch a last time to catch anything you might have missed



Oct 4-7:27 AM

## Three ways to "charge" something:

- Friction = rubbing
- Contact = transfer by touching (but no rubbing)
- Induction = electrons rearranging on a conductor because of nearby charges

### Catchy Physics Phrases

ELECTRONS ARE THE MOVEABLE  
BITS OF NEGATIVE CHARGE

Feb 3-7:13 AM

Let's explore this some more:

- \*Check out a computer
- \*Log in
- \*Google "phet balloons" & pick 1st choice
- \*Work your way through the packet

### Conservation of Charge

means that the total charge STAYS the SAME

Electrons are only **transferred**  
you can't just get more charge from nothing

Feb 3-7:31 AM

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2.	
3.	

Sep 9-7:32 AM

1. TRUE of FALSE: An object that is electrically neutral contains only neutrons.

2. The balloon stuck to the cat because opposite charges ATTRACT.

3. What type of charge does an electron have?

NEGATIVE

Feb 1-7:52 AM